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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---------------------------|-----------------|--------------------------|-------------------------|------------------|
| 09/396,303 | 09/15/1999 | ALEJANDRO H. SCHWARTZMAN | CISCP092X1/1 | 7238 |
| 22434 | 7590 08/26/2003 | | | |
| BEYER WEAVER & THOMAS LLP | | | EXAMINER | |
| P.O. BOX 778 BERKELEY, | CA 94704-0778 | | TRAN, KHANH C | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2631 | 11 |
| | | | DATE MAILED: 08/26/2003 | . " |

Please find below and/or attached an Office communication concerning this application or proceeding.

| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Exemation of them may be available under the provious of 3° CFR 1.73(a). In no event, however, may a reply be timely filled Exemation of them may be available under the provious of 3° CFR 1.73(a). In no event, however, may a reply be timely filled Exemation of them may be available under the provious of 3° CFR 1.73(a). In no event, however, may a reply be timely filled If the period for reply specialised above is less than thiny (30) days, a reply within the salutory maintained from the mailing date of this communication. Falure to reply within the set or extended period for reply will, by statute, cause the application to become ARAHOONED (30 U.S. 5, 133). Status 1) Responsive to communication(s) filled on 09 June 2003. 22a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1:24 is/are pending in the application. 4a) Of the above claim(s) is/are rejected. 7) Claim(s) is/are allowed. 6) Claim(s) 1:6 is/are objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. 110 | | | | |
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| Examiner Khanh Tran 2931 - The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of THIS COMMUNICATION. - Exercision of time may be available under the provisions of 37 CRR 1.35(a). In revert, however, may a reply be theirly side - If the period for reply specified above, the measurem statutory period will apply and will explic SX (8) MONTHS from the mailing date of this communication. - If the period for reply specified above, the measurem statutory period will apply and will explic SX (8) MONTHS from the mailing date of this communication. - If the period for reply specified above, the measurem statutory period will apply sent will explic SX (8) MONTHS from the mailing date of this communication. - If the period for reply specified above, the measurem statutory period will apply sent will be specified SX (8) MONTHS from the mailing date of this communication, even if timely filed, may reduce any communication are provided by the filed between the mailing date of this communication, even if timely filed, may reduce any communication are the mailing date of this communication, even if timely filed, may reduce any communication are the mailing date of this communication, even if timely filed, may reduce any communication are the mailing date of this communication, even if timely filed, may reduce any communication are the mailing date of this communication, even if timely filed, may reduce any communication are subjected to the mailing date of this communication. - If a solid is in a state of the filed on the mailing date of this communication, even if timely filed, may reduce any communication. - If a solid is in a state of the filed on the provided on the filed on the state of the filed on the provided on the filed on the fi | | Application No. | Applicant(s) | F/ |
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| The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extension of time may be availated used the provisions of 3°CR 1.13(a). In reverse, may a raply be timely filed to the provision of 3°CR 1.13(a). In reverse, may a raply be timely filed to the provision of 3°CR 1.13(a). In reverse, may a raply be timely filed to the provision of 1°CR 1.74(b). In reverse, the provision of the provisio | Office Action Summary | Examiner | Art Unit | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the proteions of 37 CFR 1.35(a), in no event, however, may a reply be timely filled - Expensions of time may be available under the proteions of 37 CFR 1.35(a), in no event, however, may a reply be timely filled - Extensions of time may be available under the proteions of 37 CFR 1.35(a), in no event, however, may a reply be timely filled - Expensions of time may be available under the proteions of 37 CFR 1.35(a), within the statutory minimum of birty (30) days will be considered timely. - If NO period for reply is appelled above, the maximum statutory period will apply and will expire SIX (b) MONTH'S from the making of the control of the statutor of the communication. - For the provision of the statut of the time remote and the statutor of the communication. - For the provision of the statut of the time from the statutor of the statutor of the statutor of the statutor of the communication. - For the provision of the statutor | | | | |
| THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provision of 3 of PR 1.3(q), in no event, however, may a reply be timely filed after SIX (8) MONTHS from the mailing date of this communication, and with the provision of the | The MAILING DATE of this communication app Period for Reply | ears on the cover sheet v | vith the correspondence address - | . |
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DETAILED ACTION

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1. The Amendment C filed on 06/09/2003 has been entered. Claims 1-24 are pending in this Office action.

Response to Arguments

2. Applicant's arguments filed 06/09/2003 with respect to claims 1-15 and 17-24 have been fully considered but they are not persuasive.

Regarding claim 1, the Examiner only addresses the newly added feature to said claim since other features have been addressed thoroughly in previous Office action and the Examiner still maintains the rejection. Applicants states in the argument that "TX VAGC signal 100 and the Psave signal 110 are supplied by physically separate wires, the AGC 104 is not controlled by the same signal which controls the driver 108". The Examiner respectfully does not agree with the argument. First, TX VAGC signal 100 is not the control signal to enable or disable the switch component that is in the form of the driver 108 in Wang invention. The Psave signal 110, transmitter enable signal, enables the bias circuit 106, which in turn provides a bias signal to the driver 108 and the AGC 104 that enables the amplification function. Furthermore, the AGC 104 and bias circuit are implemented on the same IC circuit using an NEC UPC3211 AGC Amplifier in Wang invention. Clearly, the AGC 104 is configured to be controlled by the Psave signal 110 in Wang teachings.

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Regarding claims 10 and 18, said claims are rejected using the same argument above in addition to rejection arguments in previous Office action.

Regarding claims 2-15 and 17-18, the Examiner maintains the rejection of said claims in previous Office action.

Regarding claim 19, said claim is objected in previous Office action because said claim is a substantial duplicate of claims 1 and 6. Even though, claim 1 has been amended, the rejection of claims 1 and 6 in previous Office action still applies to claim 19.

Regarding claim 20, similar to the rejection of claim 19, the rejection argument of claims 1, 6-7 in previous Office action still applies to claim 20 although claim 1 has been amended.

Regarding claim 21, similar to the rejection of claim 19, the rejection argument of claims 10 and 16 in previous Office action still applies to claim 20 although claim 10 has been amended.

Regarding claims 22-24, the Examiner maintains the rejection of said claims in previous Office action.

Allowable Subject Matter

3. Applicant's arguments, see pages 7-8 of the Amendment C, filed 06/09/2003, with respect to claim 16 have been fully considered and are persuasive. The rejection of claim 16 has been withdrawn. However, claim 16 is objected to as being dependent

upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

<u>Examiner's note</u>: Below is the examiner's position as explained in the Previous Office action and repeated again.

Response to Arguments

Applicant's arguments filed on December 13, 2002 have been fully considered but they are not persuasive. The examiner maintains the rejection of claims 1-5, 8-15, 17 and 18.

Regarding to Applicant's argument on claim 1, as known in the art, there are number of ways to implement a switch without utilizing an actual switch for various reasons to turn on or off certain component. As recited in the rejection, the transmitter section 32 of the RF transceiver 30 shown in figure 2 of Wang's invention includes an AGC amplifier 102 to received the differential transmit data, which is provided by the DSP 16. The AGC amplifier 102, implemented using a NEC AGC amplifier, includes an on-chip AGC amplifier 104 and a bias circuit 106, controlled by the DSP 16 through a PSave signal 110. The PSave signal 110 is effectively used as a transmitter enable signal effectively to enable the functional operation of the driver 108 or to shut down and terminate the power consumption by the driver 108. For further clarification of the rejection, referring to figure 1, Wang illustrates a block diagram of a "compact Cable"

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modem transceiver" including a digital signal processor 16, an RF transceiver 12 that is disclosed in detail in figure 2, a control microprocessor 18. It's evident that the DSP 16 is part of a transmitter that controls the transmitter section 32 of the RF transceiver 12. The DSP 16 enables and shuts down the driver 108 by sending the PSave signal 110 through the bias 106. Hence, Wang's teachings read every limitation in the claim.

The next section shows previous rejections of claims 1-5, 8-15, 17 and 18 in addition to new ground of rejections of claims 6, 7, 16, and new claims 19-21.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-5, 8-15, 17-18, 22-24 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Wang U.S. Patent 6,160,571.

Regarding claim 1, Wang discloses in figure 2 an RF transceiver circuit including a transmitter section 32 and a receiver section 34. The transmitter 32 (column 6, lines 21-60) comprising TX IN1 and TX IN2 98 data lines to provide differential transmit data to an AGC amplifier 102. The differential transmit data is received and amplified by the on-chip AGC 104. When enabled, a bias circuit 106, also provided on-chip, provides a bias signal to the AGC 104 to enable the amplification function. A bias signal from the bias circuit 102 is provided on a control line 112 to a driver 108 that is differentially coupled to the output of the AGC amplifier 104. The driver 108 transmits data through the low-pass filter 40 of the diplexer 36 and to the cable plant 14. Wang further teaches that providing a bias signal enables the functional operation of the driver 108 for transmission of data signal. Conversely, withdrawal of the bias signal preferably operates to shut down and terminate power consumption by the driver 108. Consequently, the driver 108 performs a function of a switch to effectively turn "on or off" the transmitter section of the RF transceiver 12. Referring to figure 1, Wang illustrates a block diagram of a "compact Cable modem transceiver" including a digital signal processor 16, an RF transceiver 12 that is disclosed in detail in figure 2, a control microprocessor 18. It's evident that the DSP 16 is part of a transmitter that controls the transmitter section 32 of the RF transceiver 12. The DSP 16 enables and shuts down the driver 108 by sending the PSave signal 110 through the bias 106.

Regarding claim 2, Figure 6, column 10, lines 21-52, shows a schematic diagram of an alternate transmitter section in Wang's invention, which includes an electronic switch 144 that selectively couples one end of the second winding of a RF isolation

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transformer 142 to the Transmit RF Out lead of the diplexer circuit 40 (shown in figure 2) when transmission of an RF signal is enabled. When the state of the PSAVE control signal 110 is set to disable transmission, the switch 144 connects the Transmit RF Out lead of the diplexer circuit 40 through a resistive load to an RF signal ground, thus establishing a fixed termination characteristic for the transmitter portion of the diplexer circuit 40 during periods of RF reception. Therefore, the switch 144 functions as a plurality of switches.

Regarding claim 3, referring to figure 6 again, Wang teaches that the electronic switch 144 selectively couples one end of the second winding of a RF isolation transformer 142 to the Transmit RF Out lead of the diplexer circuit 40 (shown in figure 2) when transmission of an RF signal is enabled.

Regarding claim 4, referring to figure 6 again, Wang teaches that when the state of the PSAVE control signal 110 is set to disable transmission, the switch 144 connects the Transmit RF Out lead of the diplexer circuit 40 through a 75-ohm resistive load to an RF signal ground, thus establishing a fixed termination characteristic for the transmitter portion of the diplexer circuit 40 during periods of RF reception.

Regarding claim 5, said switch 144 is attached to a 75-ohm resistive load during periods of RF reception.

Regarding claim 8, referring to figure 6 again, the switch 144 is not contained in any other component in the transmitter.

Regarding claim 9, Wang teaches that the electronic switch 144 selectively couples one end of the second winding of a RF isolation transformer 142 to the

Transmit RF Out lead of the diplexer circuit 40 (shown in figure 2) when transmission of an RF signal is enabled.

Regarding claims 10 and 18, Wang discloses in figure 2 an RF transceiver circuit including a transmitter section 32 and a receiver section 34. The transmitter 32 (column 6, lines 21-60) comprising TX IN1 and TX IN2 98 data lines to provide differential transmit data to an AGC amplifier 102. The differential transmit data is received and amplified by the on-chip AGC 104. When enabled, a bias circuit 106, also provided onchip, provides a bias signal to the AGC 104 to enable the amplification function. A bias signal from the bias circuit 102 is provided on a control line 112 to a driver 108 that is differentially coupled to the output of the AGC amplifier 104. The driver 108 transmits data through the low-pass filter 40 of the diplexer 36 and to the cable plant 14. Wang further teaches that providing a bias signal enables the functional operation of the driver 108 for transmission of data signal. Conversely, withdrawal of the bias signal preferably operates to shut down and terminate power consumption by the driver 108. Referring to figure 1, Wang illustrates a block diagram of a "compact Cable modem transceiver" including a digital signal processor 16, an RF transceiver 12 that is disclosed in detail in figure 2, a control microprocessor 18. It's evident that the DSP 16 is part of a transmitter that controls the transmitter section 32 of the RF transceiver 12. The DSP 16 enables and shuts down the driver 108 by sending the PSave signal 110 through the bias 106.

Regarding claim 11, Wang discloses, in figure 2, a bias signal from the bias circuit 102 is provided on a control line 112 to a driver 108 that is differentially coupled to the output of the AGC amplifier 104. The driver 108 transmits data through the low-

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pass filter 40 of the diplexer 36 and to the cable plant 14. Providing a bias signal enables the functional operation of the driver 108 for transmission of data signal.

Regarding claim 12, referring to figure 6, an electronic switch 144 selectively couples one end of the second winding of a RF isolation transformer 142 to the Transmit RF Out lead of the diplexer circuit 40 (shown in figure 2) when transmission of an RF signal is enabled.

Regarding claim 13, the switch 144 connecting to a 75-ohm resistive load is open when transmission of an RF signal is enabled.

Regarding claim 14, Wang teaches in figure 6 that when the state of the PSAVE control signal 110 is set to disable transmission, the switch 144 connects the Transmit RF Out lead of the diplexer circuit 40 through a 75-ohm resistive load to an RF signal ground, thus establishing a fixed termination characteristic for the transmitter portion of the diplexer circuit 40 during periods of RF reception.

Regarding claim 15, during periods of RF reception, the switch 144 connects the Transmit RF Out lead of the diplexer circuit 40 through a 75-ohm resistive load to an RF signal ground. That effectively disconnects a data signal path to a diplexer circuit 40.

Regarding claim 17, Wang discloses, in figure 2, a bias signal from the bias circuit 102 is provided on a control line 112 to a driver 108 that is differentially coupled to the output of the AGC amplifier 104. The driver 108 transmits data through the low-pass filter 40 of the diplexer 36 and to the cable plant 14.

Regarding claims 22-24, as recited in claim 1, referring to figure 2 again, as with the AGC amplifier 104, provision of the bias signal enables the functional operation of

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the driver 108 for effectively activating the AGC 104. Conversely, withdrawal of the bias signal preferably operates to shut down and terminate power consumption by the driver 108 for effectively deactivating the AGC 104.

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Claim Rejections - 35 USC § 103

Claims 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wang U.S. Patent 6,160,571 as applied to claim 1 above, and further in view of Bowyer et al. US Patent 6,307,597 B1.

Regarding claim 6, Wang's teachings show the driver 108 and the AGC amplifier 102 implemented with on separate chip. However, with the advance of the IC technology, it would have been obvious that one can easily include both the driver 108 and the AGC amplifier 102 on the same IC circuit. As also shown in Boyer et al.'s invention, which is directed to a method of transmitting a leakage tagging signal into a CATV television signal, a tag insertion arrangement 20 is a circuit that is operable to generate a tagging signal that is detectable by corresponding leakage detecting equipment. The tag insertion circuit 20 includes a pulse switch 50 comprising an RF switch 60 and a switchable amplifier 62, each having a control input connected to the control input 50a. Again, it would have been obvious for one of ordinary skill in the art to implement the switch component into an amplifier with the existing IC technology.

Regarding claim 7, Wang shows in figure 2 that the on-chip AGC amplifier 104 is a variable amplifier. It would have been obvious that a variable amplifier (with AGC) is always employed in a transmitter circuit as being known in the art.

Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wang U.S. Patent 6,160,571 as applied to claim 1 above, and further in view of Citta US Patent 4,528,663.

Regarding claim 16, Wang fails to disclose in the invention the steps of determining whether an amplifier in the cable modem can enable at a sufficient speed and activating the switch component if the amplifier cannot enable at a sufficient speed. Citta's invention is directed to a method of improving subscriber upstream communication in a two-way CATV system. During a relatively short peak periods in which a large number of subscribers transmit upstream program authorization requests, the likelihood of upstream data message collision is very high. Therefore, Citta teaches that the upstream transmission window is increased in length to a maximum value. It would have been obvious that more gain is needed to have sufficient speed to overcome the collision problem. Then, the window is reduced in length, and of course the amplifier gain is also reduced to accommodate reduced upstream traffic to improve system throughput. The step of increasing or decreasing the window size corresponds to the step of activating the switch component to enable the amplifier, and the step of determining the peak period or the off-peak period corresponds to the step of determining whether the amplifier can enable at sufficient speed to avoid the data

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collisions. Therefore, it would have been obvious that the combination of Wang and Citta's teachings would have been obvious to one of ordinary skill in the art.

Claim Objection

Applicant is advised that should claims 1 and 6 be found allowable, claim 19 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Applicant is advised that should claims 1, 6-7 be found allowable, claim 20 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Applicant is advised that should claims 10 and 16 be found allowable, claim 21 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing

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one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh Tran whose telephone number is 703-305-2384. The examiner can normally be reached on Tuesday - Friday from 08:00 AM - 05:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on 703-306-3034. The fax phone

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number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3800.

KCT

MOHAMMAD H/GHAYOUR PRIMARY EXAMINER